Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 6   (canceled)

1   Claim 7 (currently amended):   The computer controlled method of claim [[3]] 18,
2   wherein the human-sensible information is a second image and the step of
3   presenting producing further comprises presenting said second image on the
4   output device.

Claims 8 - 12 (canceled)

1   Claim 13 (currently amended):   The apparatus of claim [[9]]21, wherein the
2   human-sensible information is a second image associated with the visible object
3   and the output device is a lens apparatus that presents the second image.

Claims 14 (canceled)

1   Claim 15 (currently amended):   The apparatus of claim [[9]]21, wherein the
2   human-sensible information is a second image associated with the visible object
3   and the information output device is a display that presents the second image.

Claims 16 – 17 (canceled)

Amendment

1   Claim 18 (new):   A computer controlled method for operating on a visible

2   object included in an image disposed on a substrate to produce human-sensible

3   information associated with the visible object, the method comprising:

4   receiving image data indicating an image region of the image disposed on

5   the substrate; the image region including the visible object and further including

6   coded embedded data forming a uniform background for the visible object; the

7   coded embedded data indicating a location of the visible object in the image

8   disposed on the substrate;

9   decoding the coded embedded data to produce location data indicating the

10   location of the visible object in the image;

11   retrieving human-sensible information associated with the visible object

12   using the location data; and

13   producing the human-sensible information associated with the visible object

14   on an output device.

1   Claim 19 (new): The computer-controlled method of claim 18 wherein the coded

2   embedded data is a pattern of glyphs, and wherein the location of the visible

3   object in the image is encoded in the pattern of glyphs using rows of interleaved

4   and offset address codes.

1   Claim 20 (new): The computer-controlled method of claim 19 wherein the coded

2   embedded data further includes label data encoded within the rows of interleaved

3   and offset address codes; and wherein retrieving the human-sensible information

4   further includes using the label data to identify the human-sensible information

5   associated with the visible object.

Amendment

Claim 21 (new): An apparatus for operating on a visible object included in an image disposed on a substrate to produce human-sensible information associated with the visible object, said apparatus comprising:

a frame grabber configured to receive image data indicating an image region of the image disposed on the substrate; the image region including the visible object and further including coded embedded data forming a uniform background for the visible object; the coded embedded data indicating a location of the visible object in the image disposed on the substrate;

a decoder configured to decode the coded embedded data to produce location data indicating the location of the visible object in the image;

a data access mechanism configured to retrieve said human-sensible information associated with the visible object using the location data; and

an output device configured to produce said human-sensible information associated with the visible object.

Claim 22 (new): The apparatus of claim 21 wherein the coded embedded data is a pattern of glyphs and the location of the visible object in the image is encoded using rows of interleaved and offset address codes, and wherein the decoder produces the location data indicating the location of the visible object in the image by extracting the location data from the rows of interleaved and offset address codes.

Claim 23 (new): The computer-controlled method of claim 22 wherein the coded embedded data further includes label data encoded within the rows of interleaved and offset address codes; and wherein the data access mechanism uses the label data to identify the human-sensible information associated with the visible object.

Amendment

1   Claim 24 (new):   A computer program product including a computer readable

2   medium having computer readable code embodied therein for causing a computer

3   to operate on a visible object included in an image disposed on a substrate to

4   produce human-sensible information associated with the visible object, the

5   computer program product comprising:

6   computer readable program code configured to cause said computer to

7   receive image data indicating an image region of the image disposed on the

8   substrate; the image region including the visible object and further including coded

9   embedded data forming a uniform background for the visible object; the coded

10   embedded data indicating a location of the visible object in the image disposed on

11   the substrate;

12   computer readable program code configured to cause said computer to

13   decode the coded embedded data to produce location data indicating the location

14   of the visible object in the image;

15   computer readable program code configured to cause said computer to

16   retrieve human-sensible information associated with the visible object using the

17   location data; and

18   computer readable program code configured to cause said computer to

19   produce the human-sensible information associated with the visible object on an

20   output device.

       Amendment